





```

Oy      137 G-----KEPTMNEFKYLVAPDKVWGAMPVTSVEVEVQLQITLVAKRL 179
          |          | | | | | | | | | | | | | | | | | | | |
Db      191 GGFLGGLIK---WNFEKFLIDKKGVKVERPEPTTSPFOIEKDIOKTLAEI 237

RESULT 6
T06462
glutathione peroxidase (EC 1.11.1.9) precursor - garden pea
N:Alternate names: phospholipid glutathione peroxidase
C:Species: Pisum sativum (garden pea)
C:Date: 23-Apr-1999 #sequence_revision 23-Apr-1999 #text_change 21-Jul-2000
C:Accession: T06462
R: Mullineaux, P.M.; Karpinski, S.; Jimenez, A.; Cleary, S.P.; Robinson, C.; Creissen, G
Plant J. 13, 375-379, 1998
A:Title: Identification of cDNAs encoding plastid-targeted glutathione peroxidase.
A:Reference number: Z15696; MUID:98345965
A:Accession: T06462
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-236 <MUI>
A:Cross-references: EMBL:AJ000508; NID:g2632108; PIDN:CA04142.1; PID:g2632109
A:Experimental source: cv. Birle
C:Genetics:
A:Map position: 1
A:Genome: nuclear
C:Superfamily: glutathione peroxidase
C:Keywords: chloroplast; oxidoreductase; selenocysteine

```

Query Match	34.08:	Score 334:	DB 2:	Length 236:
Best Local Similarity	42.78:	Pred. No. 7.8e-25:		
Matches 70:	Conservative 24:	Mismatches 66:	Indels 4:	Gaps 1:

QY 17 ACAQQEQDFYDFKAVNIRGKLSLEKYRGSVSLVNVASECGFTDQHYRALQQLQRDLCR 76

Db / AKAIKDTITIDE<sup>TM</sup>VKDKDKDVLSKFKGKVLIVNVA<sup>SR</sup>CGLTSSNT<sup>TE</sup>LSHLYENFKN 130

[illegible]

1327 **Q**UANTITATIVE ANALYSIS OF THE EFFECTS OF THE

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191 GGEFGDTVKWNEFEKI YDKNGKVFEBYPBTTSPBQTEKDIOKIT 234
      | | | | : | | | : | | : | :

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ISSN 0013-788X  
A84644

C:Species: Arabidopsis thaliana (mouse-ear cress)  
C:Data: 03-Feb-2001 #sequence verified 03-Feb-2001 #tentative change 03-Feb-2001

C;Accession: A84644  
R;Lfn, X.: Kaul, S.: Rounsley, S. D.: Shea, T. P.: Benito, M. T.: Town, C. D.:

M.; KOO, H.; MORIALL, A.S.; CROHIN, L.A.; SHEN, M.; VANAKEN, S.E.; UMAYAM, E.; NUSS, D.; NIERMAN, W.C.; WHITE, O.; EISEN, J.A.; SALZBERG, S.L.; FRASER, C.

A; Title: Sequence and analysis of chromosome 2 of the plant *Arabidopsis thaliana*.  
 1. Reference number: 10470. URL: 00000007

A:Accession: A84644  
A>Status: preliminary

A; Residues: 1-236 <STO>  
A; molecule type: DNA

[illegible]

A;Map position: 2

Query Match 33.7% Score 331: DB 2: Length 236:

Best Local Similarity 41.3%; Pseud. NO. 1:3e-24;  
Matches 69; Conservative 23; Mismatches 65; Indels 10; Gaps

```

      8 RESULT
T06309 glutathione peroxidase (EC 1.11.1.9) Flic18_70 - Arabidopsis thaliana
N:Alternate names: protein flic18_70
C:Species: Arabidopsis thaliana (mouse-ear cress)
C>Date: 30-Apr-1999 #sequence_revision 30-Apr-1999 #text_change 29-Oct-1999
C:Accession: T06309
R:Beyan, M.; Terry, N.; Ardiles, W.; Buysshaert, C.; Dasseville, R.; De Clerck, R.; ewes, H.W.; Mayer, K.F.X.; Schueler, C. submitted to the Protein Sequence Database, April 1999
A:Reference number: Z15S89
A:Accession: T06309
A:Molecule type: DNA
A:Residues: 1..230 <BEV>
A:Cross-references: EMBL:AL049607; GSPDB:GN00062; ATSP:Flic18_70
A:Experimental source: cultivar Columbia; BAC clone flic18
C:Genetics:
A:Gene: ATPSP:flic18_70
A:Map position: 4
A:Introns: 82/3; 108/2; 129/1; 168/3
C:Superfamily: glutathione peroxidase
C:Keywords: oxidoreductase
```

Query Match	33.6%	Score 330	DB 24	length 230
Best Local Similarity	43.0%	Pred. No.	1.8e-24	
Matches	68	Conservative	21	Mismatches 65; Indels 4; Gaps 1

QY 17 ACAQOEQDEYDEKAVNIRGKLVLSLEKYRGSVSLVNVASECGFTDQHYRALQQLORDLGP 76

DB 68 AKAAAEKSVHDFIVKIDIDGNDVSLDKFKGKPELLVNVASRCGLTSSNYSELSQLEYEKYN 12/

[illegible]

137 176

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188 GGFIDGDTKWNFEKELYDKKGRVFRYPPTSPFQTEY 225
      |  ||| | : || | :: :
Db

```

575885

N;Alternate names: protein slr1171  
C:Species: *Synechococcus* sp

A; Variety: PCC 6803  
C; Date: 25-Apr-1997 #sequence revision 25-Apr-1997 #text change 20-Jun-2000

C; accession. 5/5803  
R; Kaneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asamizu, E.; Nakamura, Y.; Miya

DNA Res. 3, 109-136, 1996

S.  
A: Reference number: S74322: MMTD: 97061201

```

A;Accession: S/3885 .
A;Status: nucleic acid sequence not shown; translation not shown

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A;Residues: 1-169 <KAN>





Mon Aug 26 08:01:41 2002

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